

IN THE ABSTRACT:

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Please add to the application as a separate page following the claims the abstract appended to this paper.

IN THE CLAIMS:

Please cancel claims 1-11 without prejudice, and add new claims 12-25:

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12. An adhesive comprising one or more organic polymers and one or more paramagnetic or ferromagnetic nanoparticles having a particle size of from 1 to 1000 nm.

13. The adhesive of claim 12, comprising 0.1% to 50% by weight of the nanoparticles.

14. The adhesive claim 12, wherein the nanoparticles comprise at least one compound selected from the group consisting of Fe, Co, Ni, Cr, Mo, W, V, Nb, Ta, Ce, Pr, Nd, Pm, Sm, Eu, Gd, Tb, Dy, Ho, Er, Tm, Yb, Lu, alloys of two or more of said elements, oxides of said elements, ferrites of said elements except iron, and mixtures thereof.

15. The adhesive of claim 12, wherein the nanoparticles comprise magnetite, macchiemite, goethite, or a ferrite of the general formula $MeOFe_2O_3$, wherein Me represents an element selected from the group consisting of Mn, Co, Ni, Cu, Zn, Mg or Cd, and mixtures thereof.

16. The adhesive of claim 12, in the form of a pressure sensitive adhesive or a contact adhesive.

17. The adhesive of claim 12, in the form of a hot melt adhesive or a dispersion adhesive.

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18. The adhesive of claim 12, wherein the one or more organic polymers comprise one or more synthetic organic polymers selected from the group consisting of polyacrylates, polymethacrylates, polyoxy-alkylenes, polyurethanes, polyesters, polystyrene, polyethylene, polyvinyl esters, ethylene-vinyl acetate copolymers, and mixtures thereof.

19. The adhesive of claim 18, wherein the one or more synthetic organic polymers comprise an ethylene-vinyl acetate copolymer or a mixture of two or more such copolymers.

20. The adhesive of claim 12, wherein one or more of the nanoparticles are bonded ionically, coordinatively or covalently to one or more of the organic polymers.

→ coordinated?
(partial bonding) H?

21. A process for preparing an adhesive composition, comprising combining and mixing one or more organic polymers and one or more paramagnetic or ferromagnetic nanoparticles, and optionally one or more solvents or further additives, to form the adhesive composition.

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22. A method of temporarily or permanently binding two or more substrates together, comprising the steps of applying to one or more surfaces of the substrates an adhesive comprising one or more paramagnetic or ferromagnetic nanoparticles having a particle size of from 10 to 300 nm and contacting the one or more substrate surfaces with